AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended): A client side HTTP stack software component effectuated on a machine that processes for processing requests, comprising:

at least one completion port object;

a thread pool comprising a plurality of threads that adapted to process tasks associated with at least one client side request; and

a client side state machine associated with the at least one request.

- (Currently amended): The client side HTTP stack implementation of claim
 further comprising a scheduler thread adapted to that activates an object scheduled to begin sending requests at a specific time.
- (Currently amended): The client side HTTP stack implementation of claim
 further comprising a DNS thread adapted to that resolves domain names into IP
 addresses.
- 4. (Currently amended): The client side HTTP stack implementation of claim 1, further comprising a timeout thread with a list of active sockets and timers associated with each socket, and adapted to the timeout thread selectively times-out timeout at least one socket according to at least one timer in the list.
- 5. (Currently amended): The client side HTTP stack implementation of claim 4, further comprising a scheduler thread adapted to that activates an object scheduled to begin sending requests at a specific time.

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- (Currently amended): The client side HTTP stack implementation of claim
 further comprising a DNS thread adapted to that resolves domain names into IP
 addresses.
- 7. (Currently amended): The client side HTTP stack implementation of claim 4, further comprising a DNS thread adapted to that resolves domain names into IP addresses.
- 8. (Currently amended): A <u>machine effectuated</u> software component <u>that</u> <u>implements</u> for <u>implementing</u> a client side HTTP stack, comprising:
- a thread pool comprising N threads that adapted to process M requests from a client application component, wherein where N and M are integers greater than 1 and wherein where M is greater than N; and

a state machine associated with each of the M requests.

- 9. (Currently amended): The software component of claim 8, further comprising at least one thread activation component adapted to that activates at least one of the N threads based on an event.
- 10. (Currently amended): The software component of claim 9, wherein the at least one thread activation component is a completion port.
- 11. (Currently amended): The software component of claim 9, wherein at least one of the N threads is adapted to deactivates itself and returns to the thread pool when an operation being processed by the at least one of the threads is pending.
- 12. (Currently amended): The software component of claim 11, wherein the event is the receipt of a completion packet by the at least one thread activation component.

- 13. (Currently amended): The software component of claim 12, wherein the at least one thread activation component is a completion port.
- 14. (Currently amended): The software component of claim 13, further comprising a scheduler thread adapted to that activates an object scheduled to begin sending requests at a specific time.
- 15. (Currently amended): The software component of claim 14, further comprising a DNS thread adapted to that resolves domain names into IP addresses.
- 16. (Currently amended): The software component of claim 15, further comprising a timeout thread with a list of active sockets and timers associated with each socket, and adapted to the timeout thread selectively timeout times-out at least one socket according to at least one timer in the list.

17. (Cancelled).

- 18. (Currently amended): The software component of claim 9 [[17]], further comprising at least one key associated with [[the]] at least one of the M requests, wherein a first one of the N threads is associated with the at least one of the M requests, and wherein the thread activation component is adapted to associates the context of the first one of the N threads with the at least one state machine using the at least one key, in order to activate the first one of the N threads.
- 19. (Currently amended): The software component of claim 18, wherein the thread activation component is adapted to associates the context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.

- 20. (Currently amended): The software component of claim 8, further comprising a scheduler thread adapted to that activates an object scheduled to begin sending requests at a specific time.
- 21. (Currently amended): The software component of claim 8, further comprising a DNS thread adapted to that resolves domain names into IP addresses.
- 22. (Currently amended): The software component of claim 8, further comprising a timeout thread with a list of active sockets and timers associated with each socket, and adapted to the timeout thread selectively timeout times out at least one socket according to at least one timer in the list.
- 23. (Currently amended): A method <u>effectuated at least in part by a machine</u> for [[of]] implementing a client side HTTP stack, comprising:

processing M requests from a client application component using a thread pool comprising N threads, wherein where M and N are integers greater than 1 and wherein where M is greater than N; and

associating a state machine with each of the M requests.

- 24. (Original): The method of claim 23, further comprising: selectively deactivating at least one of the N threads; and activating at least another of the N threads based on an event using at least one thread activation component.
- 25. (Currently amended): The method of claim 24, wherein the at least one thread activation component is a completion port.
- 26. (Currently amended): The method of claim 24, wherein selectively deactivating at least one of the N threads comprises deactivating the at least one of the N threads when an operation being processed by the at least one of the N threads is pending.

- 27. (Currently amended): The method of claim 26, wherein activating at least another of the N threads based on an event comprises:
- receiving a completion packet using the thread activation component; and activating one of the N threads upon receipt of the completion packet using the thread activation component.
- 28. (Currently amended): The method of claim 27, wherein the at least one thread activation component is a completion port.
- 29. (Original): The method of claim 28, further comprising activating an object scheduled to begin sending requests at a specific time using a scheduler thread.
- 30. (Original): The method of claim 29, further comprising resolving domain names into IP addresses using a DNS thread.
- 31. (Original): The method of claim 30, further comprising selectively timing out at least one socket according to at least one timer associated with the at least one socket using a timeout thread comprising a list of active sockets and timers associated with each socket.
 - 32. (Cancelled).
- 33. (Currently amended): The method of claim 23 [[32]], further comprising: associating at least one key with [[the]] at least one of the M requests; associating a first one of the N threads with the at least one of the M requests; and associating a context of the first one of the N threads with the at least one state machine using the at least one key, in order to deactivate the first one of the N threads.
- 34. (Original): The method of claim 33, further comprising associating a context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.

- 35. (Currently amended): A computer-readable medium having computer-executable instructions for processing M requests from a client application component using a thread pool comprising N threads, wherein where M and N are integers greater than 1 and wherein where M is greater than N, and associating a state machine with at least one of the M requests.
- 36. (Original): The computer-readable medium of claim 35, further comprising computer-executable instructions for:

selectively deactivating at least one of the N threads; and activating at least another of the N threads based on an event using at least one thread activation component.

- 37. (Currently amended): The computer-readable medium of claim 36, wherein the at least one thread activation component is a completion port.
- 38. (Currently amended): The computer-readable medium of claim 36, wherein the computer-executable instructions for selectively deactivating at least one of the N threads comprises computer-executable instructions for deactivating the at least one of the N threads when an operation being processed by the at least one of the N threads is pending.
- 39. (Currently amended): The computer-readable medium of claim 38, wherein the computer-executable instructions for activating at least another of the N threads based on an event comprises computer-executable instructions for:

receiving a completion packet using the thread activation component; and activating one of the N threads upon receipt of the completion packet using the thread activation component.

- 40. (Original): The computer-readable medium of claim 39, further comprising computer-executable instructions for activating an object scheduled to begin sending requests at a specific time using a scheduler thread.
- 41. (Original): The computer-readable medium of claim 40, further comprising computer-executable instructions for resolving domain names into IP addresses using a DNS thread.
- 42. (Original): The computer-readable medium of claim 41, further comprising computer-executable instructions for selectively timing out at least one socket according to at least one timer associated with the at least one socket using a timeout thread comprising a list of active sockets and timers associated with each socket.
 - 43. (Cancelled).
- 44. (Currently amended): The computer-readable medium of claim <u>35</u> [[43]], further comprising computer-executable instructions for:

associating at least one key with the at least one of the M requests; associating a first one of the N threads with the at least one of the M requests; and associating a context of the first one of the N threads with the at least one state machine using the at least one key, in order to deactivate the first one of the N threads.

- 45. (Original): The computer-readable medium of claim 44, further comprising computer-executable instructions for associating a context of one of the N threads with the at least one state machine using the at least one key in order to activate the one of the N threads based on an event.
- 46. (Currently amended): A <u>machine executed</u> software component for implementing a client side HTTP stack, comprising:

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means for processing M requests from a client application component using a thread pool comprising N threads, wherein where M and N are integers greater than 1 and wherein where M is greater than N; and

means for assigning each of the M requests with a state machine.

- 47. (Original): The software component of claim 46, further comprising: means for selectively deactivating at least one of the N threads; and means for activating at least another of the N threads based on an event.
- 48. (Original): The software component of claim 47, further comprising means for activating an object scheduled to begin sending requests at a specific time.
- 49. (Original): The software component of claim 47, further comprising means for resolving domain names into IP addresses.
- 50. (Original): The software component of claim 47, further comprising means for selectively timing out at least one socket according to at least one timer associated with the at least one socket.